1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name: **Phosphotungstic Acid 2%, Alcoholic**
Part Number: 13342
CAS-No.: Not applicable
SDS Number: 3940

1.2 Recommended Use: Laboratory Chemicals

1.3 Company: Newcomer Supply
2505 Parview Road
Middleton, WI 53562 USA
Telephone: 1-800-383-7799
Fax: 1-608-831-0866
Website: www.newcomersupply.com
Email: newly@newcomersupply.com

24 HOUR EMERGENCY CONTACT
CALL CHEMTREC: 1-800-424-9300
Contact CHEMTREC only in the event of an emergency involving a chemical spill, leak, fire, exposure or other accident.

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture
GHS Classification, (in accordance with 29 CFR1910.1200)
Flammable liquid, Category 2
Acute toxicity (oral), Category 4
Acute toxicity (dermal), Category 4
Acute toxicity (inhalation), Category 4
Serious eye damage, Category 1
Skin corrosion, Category 1
Specific Target Organ Toxicity – Single exposure, Category 2

2.2 GHS Label elements
Signal Word DANGER

Pictogram

Hazard Statement(s):
· Highly flammable liquid and vapour
· Harmful if swallowed
· Harmful in contact with skin
· Harmful if inhaled
· Causes serious eye damage
· Causes severe skin burns and eye damage
· May cause damage to organs
Precautionary Statement(s):
Prevention:
· Keep away from heat/sparks/open flames/hot surfaces – No smoking
· Keep container tightly closed
· Ground/bond container and receiving equipment
· Use explosion-proof fume hood/electrical/ventilating/light/…/equipment
· Use only non-sparking tools
· Take precautionary measures against static discharge
· Wear protective gloves/protective clothing/eye protection/face protection
· Wash skin thoroughly after handling
· Do not eat, drink or smoke when using this product
· Use only outdoors or in a well-ventilated area
· Avoid breathing dust/fume/gas/mist/vapours/spray
Response:

- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- In case of fire use carbon dioxide, dry chemical or alcohol-resistant foam.
- IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician
- Rinse mouth
- IF ON SKIN: Gently wash with plenty of soap and water
- Specific treatment: see first aid measures in section 4
- Take off contaminated clothing and wash before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- If eye irritation persists get medical advice/attention
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- Specific treatment: see first aid measures in section 4
- Immediately call a POISON CENTER or doctor/physician

Storage:

- Store in a well ventilated place
- Store locked up

Disposal:

- Dispose of contents/ container to an approved waste disposal plant.

2.3 Description of any hazards not otherwise classified None

2.4 >1% of mixture with unknown acute toxicity None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Hazardous Components

Component		Concentration
Name	Ethyl Alcohol	
CAS-No.	64-17-5	60-70%
Name	Methyl Alcohol	
CAS-No.	67-56-1	2-4%
Name	Isopropyl Alcohol	
CAS-No.	67-63-0	2-4%
Name	Phosphotunstic Acid	
CAS-No.	12501-23-4	2%

4.1 Description of necessary measures

Inhalation (breathing)

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion (swallowed)

IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and or effects, acute and delayed
The most important symptoms/effects are presented in Section 2 and or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media
Carbon dioxide, dry chemical, water spray, alcohol-resistant foam.

5.2 Specific hazards arising from the substance or mixture
No data available

5.3 Protective equipment and precautions for fire-fighters
Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant clothing as recommended by clothing manufacturer.

NFPA Rating

Health hazard:	2	Fire hazard:	3	Reactivity hazard:	0

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Apply personal protective equipment (see Section 8). Use in a properly ventilated area. Avoid breathing vapors. Avoid skin contact. Avoid eye contact. Wash hands after use. In case of large spill, remove personnel to a safe area. Keep product away from heat, flame, ignition sources, and reactive materials. Avoid accumulation of vapor to form explosive concentration. Pay particular attention to low areas where vapor accumulates more easily.

6.2 Methods and material for containment and cleaning up
Apply personal protective equipment (see Section 8). Contain spill. Prevent further leakage if possible and safe to do so. Ensure proper ventilation. For small amounts, wipe or absorb spill using inert material and dispose of according to local regulations. For large amounts, evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations. Eliminate sources of ignition.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Keep away from heat/sparks/open flames/hot surfaces – No smoking. Do not breathe dust/fume/gas/mist/vapours/spray.Wear protective gloves/protective clothing/eye protection/face protection.

7.2 Conditions for safe storage, including any incompatibilities
Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters
Components with limit values that require monitoring at the workplace

Component	CAS-No.	Regulatory	Value	Parameters
Ethyl Alcohol	64-17-5	OSHA PEL	TWA	1000 ppm (1900 mg/m^3)
		ACGIH TLV	TWA	1000 ppm (1880 mg/m^3)
		NIOSH REL	TWA	1000 ppm (1900 mg/m^3)

Component	CAS-No.	Regulatory	Value	Parameters
Methyl Alcohol	67-56-1	OSHA PEL	TWA	200 ppm (980 mg/m^3)
		ACGIH TLV	STEL	200 ppm (1,230 mg/m^3)
		ACGIH TLV	STEL	50 ppm (1,230 mg/m^3)
		NIOSH REL	TWA	200 ppm (980 mg/m^3)
		NIOSH REL	STEL	250 ppm (980 mg/m^3)

Component	CAS-No.	Regulatory	Value	Parameters
Isopropyl Alcohol	67-63-0	OSHA PEL	TWA	400 ppm (980 mg/m^3)
		ACGIH TLV	TWA	400 ppm (983 mg/m^3)
		ACGIH TLV	STEL	500 ppm (1,230 mg/m^3)
		NIOSH REL	TWA	400 ppm (980 mg/m^3)
		NIOSH REL	STEL	500 ppm (980 mg/m^3)

Component	CAS-No.	Regulatory	Value	Parameters
Phosphotungstic Acid	12501-23-4	ACGIH	TWA	5 mg/m^3 (as a tungsten soluble compound)
		ACGIH	STEL	0.10 mg/m^3 (as a tungsten soluble compound)

8.2 Exposure Controls

Appropriate engineering controls

Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises. Use product in an appropriately designated fume hood. Take measures to keep concentrations below acceptable limits.

8.3 Personal Protective Equipment

Eye/Face protection

Wear chemical safety goggles and/or a full face shield if splashing is possible. Keep eye wash fountain nearby.

Skin Protection

Wear chemical-resistant gloves. Gloves should be resistant to components of product. Refer to glove manufacturer for appropriate type and glove thickness.

Body Protection

No data available

Respiratory Protection

Respirators should only be used if the employer has implemented a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams, as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).
Ethyl Alcohol: Where the potential exists for exposure over 1,000 ppm: use a NIOSH approved supplied-air respirator with a full
facepiece operated in a pressure-demand or other positive-pressure mode. For increased protection use in combination with an auxiliary self-contained breathing apparatus or an emergency escape air cylinder.
Exposure to 3,300 ppm is immediately dangerous to life and health. If the possibility of exposure above 3,300 ppm exists, use a NIOSH approved self-contained breathing apparatus with a full facepiece operated in a pressure-demand or other positive-pressure mode equipped with an emergency escape air cylinder.
In case of emergency, entry into or escape from unknown concentrations select the highest level approved respiratory protection available.

Other Information
None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Clear, colorless solution
Odor	Alcoholic odor
Odor threshold	No data available
pH	No data available
Melting point/freezing point	-114°C (-173.2°F)
Initial boiling point and boiling range	78-80°C (172-176°F)
Flash point	13°C (55.4°F) Closed cup
Evaporation rate	1.7 (Ethyl Alcohol)
Flammability (solid, gas)	Liquid is flammable
Upper flammability or explosive limits	19%
Lower flammability or explosive limits	3%
Vapor pressure	No data available
Vapor density	1.6 (Ethyl Alcohol)
Relative density	0.789
Solubility(ies)	Miscible with water and many organic liquids
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable in a closed container within label-specified storage temperature and expiration date.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, sparks, open flame, and ignition sources.

10.5 Incompatible materials

Ethyl alcohol: Strong oxidizers, potassium dioxide, bromine pentafluoride, acetyl bromide, acetyl chloride, platinum, sodium concentrated sulfuric acid, potassium and hydrogen peroxides, platinum black, calcium hypochlorite, silver oxide, ammonia, nitric acid, mercuric nitrate, silver nitrate, magnesium perchlorate, isocyanates, mineral acids, and chloroform.

10.6 Hazardous decomposition products
Carbon dioxide and carbon monoxide may be released if product is heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation exposure
Inhaling ethyl alcohol, methyl alcohol, and isopropyl alcohol can irritate the nose, throat and lungs causing coughing and/or shortness of breath.

Oral exposure
Oral exposure to ethyl alcohol, methyl alcohol, and isopropyl alcohol can cause headache, drowsiness, nausea and vomiting, and unconsciousness. It can also affect concentration and vision.

Dermal exposure
Contact can irritate the skin.

Skin corrosion/irritation
Prolonged or repeated exposure can cause drying and cracking of the skin with peeling, redness and itching.

Serious eye damage/irritation
Contact can irritate the eyes.

Respiratory or skin sensitization
Inhaling ethyl alcohol, methyl alcohol, and isopropyl alcohol can irritate the nose, throat and lungs causing coughing and/or shortness of breath.

Germ cell mutagenicity
No data available

Reproductive toxicity
Repeated oral exposure to ethyl alcohol may cause spontaneous abortions, as well as birth defects and other developmental problems. This condition is referred to as “fetal alcohol syndrome." There is limited evidence that oral exposure to ethyl alcohol may decrease fertility in males.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Repeated high exposure may affect the liver and the nervous system.

Aspiration hazard
No data available

Acute toxicity

Ethyl Alcohol:
LD50 rat oral 3450 mg/kg
LD50 mouse oral 7060 mg/kg
LC50 rat inhalation 20000 ppm/10H
LC50 mouse inhalation 20363 ppm/4H
Phosphotungstic acid:
LD50 rat oral 3300 mg/kg

Carcinogencity
IARC: None of the components are listed
NTP: None of the components are listed
OSHA: None of the components are listed

Additional information
RTECS: No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal methods
Contents
Dispose of contents in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of packaging in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

14.1 DOT (US)

UN-Number	1170
Proper shipping name	Ethanol
Hazard class	3
Packing group	II
Environmental hazards	No data available

15. REGULATORY INFORMATION

15.1 No data available

16. OTHER INFORMATION

Preparation Information

Version 1.0

Newcomer Supply Inc.
800-383-7799
www.newcomersupply.com